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| L13 | 1624 | 714/47-49.ccls. | USPAT | OR | OFF | 2005/10/12 11:51 |
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| L18 | 94643 | log, logs, logging | USPAT | OR | OFF | 2005/10/12 11:51 |
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| L20 | 8909 | L15 and L16 | USPAT | OR | OFF | 2005/10/12 11:51 |
| L21 | 402 | L8 and L20 | USPAT | OR | OFF | 2005/10/12 11:51 |
| L22 | 67 | L19 and L21 | USPAT | OR | OFF | 2005/10/12 11:51 |
| L23 | 38 | L18 and L22 | USPAT | OR | OFF | 2005/10/12 11:51 |
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| L35 | 20970 | network near5 manag$5 | USPAT | OR | OFF | 2005/10/12 11:51 |
| L36 | 208 | jini, jcore | USPAT | OR | OFF | 2005/10/12 11:51 |

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| L40 | 79205 | L39 same L28 | USPAT | OR | OFF | 2005/10/12 11:51 |
| L41 | 281 | L32 and L40 | USPAT | OR | OFF | 2005/10/12 11:51 |
| L42 | 94643 | log, logs, logging | USPAT | OR | OFF | 2005/10/12 11:51 |
| L43 | 137 | L41 and L42 | USPAT | OR | OFF | 2005/10/12 11:51 |
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| S27 | 90328 | log, logs, logging | USPAT | OR | OFF | 2005/03/09 16:19 |
| S28 | 129 | S26 and S27 | USPAT | OR | OFF | 2005/03/09 16:21 |
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| S30 | 60 | S28 and S29 | USPAT | OR | OFF | 2005/03/09 16:30 |
| S31 | 163 | jini, jcore | USPAT | OR | OFF | 2005/03/09 16:30 |
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| S33 | 22 | S32 and S11 | USPAT | OR | OFF | 2005/03/09 16:55 |
| S34 | 1158 | local with log | USPAT | OR | OFF | 2005/03/09 16:55 |
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| S37 | 63740 | clock with synchron$9 | USPAT | OR | OFF | 2005/03/10 10:33 |
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| S41 | 879 | 714/25-26.ccls. | USPAT | OR | OFF | 2005/03/10 10:33 |
| S42 | 1515 | 714/47-49.ccls. | USPAT | OR | OFF | 2005/03/10 10:33 |
| S43 | 257 | 714/57.ccls. | USPAT | OR | OFF | 2005/03/10 10:33 |
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| S49 | 404 | S48 | USPAT | OR | OFF | 2005/03/10 10:33 |
| S50 | 871680 | alarm$2, event$2, alert$2, error$2, fault$2 | USPAT | OR | OFF | 2005/03/10 10:33 |
| S51 | 871680 | S50 | USPAT | OR | OFF | 2005/03/10 10:33 |
| S52 | 90328 | log, logs, logging | USPAT | OR | OFF | 2005/03/10 10:33 |
| S53 | 90328 | S52 | USPAT | OR | OFF | 2005/03/10 10:33 |
| S54 | 19045 | network near5 manag$5 | USPAT | OR | OFF | 2005/03/10 10:33 |
| S55 | 19045 | S54 | USPAT | OR | OFF | 2005/03/10 10:33 |
| S56 | 1158 | local with log | USPAT | OR | OFF | 2005/03/10 10:33 |
| S57 | 1158 | S56 | USPAT | OR | OFF | 2005/03/10 10:33 |
| S58 | 8307 | S44 and S46 | USPAT | OR | OFF | 2005/03/10 10:33 |
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| S72 | 14688 | local with log$3 | US-PGPUB; USPAT; EPO; IBM_TDB | OR | ON | 2005/10/05 16:00 |
| S73 | 12165 | remote with log$3 | US-PGPUB; USPAT; EPO; IBM_TDB | OR | ON | 2005/10/05 16:00 |
| S74 | 488 | S72 and S73 and S71 | US-PGPUB; USPAT; EPO; IBM_TDB | OR | ON | 2005/10/05 16:00 |
| S75 | 2166 | S69 same S72 | US-PGPUB; USPAT; EPO; IBM_TDB | OR | ON | 2005/10/05 16:00 |
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| S77 | 1 | "5857190".pn. | USPAT | OR | OFF | 2005/10/11 15:15 |

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**1** ARTS: a distributed real-time kernel

H. Tokuda, C. W. Mercer

July 1989 **ACM SIGOPS Operating Systems Review**, Volume 23 Issue 3

Full text available: pdf(1.50 MB) Additional Information: full citation, abstract, citings, index terms

ARTS is a distributed real-time operating system designed for a real-time systems testbed being developed at Camegle Mellon University. The objective of the testbed is to develop and verify advanced real-time computing technologies for a distributed environment. The tastbed consists of a set of SUN3 workstations connected by a real-time network based on IEEE 802.5 Token Ring and Ethernet. The goal of the ARTS Kernel is not to produce simply a fast real-time executive, but rather to provide users ...

**2** The design of an interactive online help desk in the Alexandria Digital Library

Robert Prince, Jianwen Su, Hong Tang, Yonggang Zhao

March 1999 **ACM SIGSOFT Software Engineering Notes , Proceedings of the international joint conference on Work activities coordination and collaboration**, Volume 24 Issue 2

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

In large software systems such as digital libraries, electronic commerce applications, and customer support systems, the user interface and system are often complex and difficult to navigate. It is necessary to provide users with interactive online support to help users learn how to effectively use these applications. Such online help facilities can include providing tutorials and animated demonstrations, synchronized activities between users and system supporting staff for real time instruction ...

**Keywords:** collaboration, digital library, online help desk, online support, user interface

**3** CEVA: a tool for collaborative video analysis

Andy Cockburn, Tony Dale

November 1997 **Proceedings of the international ACM SIGGROUP conference on Supporting group work: the integration challenge**

Full text available: pdf(1.23 MB) Additional Information: full citation, references, index terms

**Keywords:** collaborative video analysis, design, evaluation, groupware, user interfaces

**4** Inner Workings of WANPIPE

Nenad Corbic, David Mandelstam
February 2001 **Linux Journal**

Full text available: html(16.82 KB) Additional Information: full citation, abstract, index terms

Corbic and Mandelstam discuss the structure and user interfaces to the WANPIPE drivers as they have evolved and currently exist.

**5** Prioritizing remote procedure calls in Ada distributed systems

J. J. Gutiérrez García, M. González Harbour
June 1999 **ACM SIGAda Ada Letters , Proceedings of the ninth international workshop on Real-time Ada**, Volume XIX Issue 2

Full text available: pdf(487.80 KB) Additional Information: full citation, abstract, citings, index terms

In this paper we discuss the assignment of priorities to the execution of remote procedure calls in distributed real-time systems that are programmed using the Distributed Systems Annex (DSA) of Ada 95. We first discuss the current priority model used in the Glade implementation of the DSA. We then present some theoretical results that show that a more flexible priority assignment methodology can provide much better schedulable utilization levels. Based upon these results we propose an implement ...

**Keywords**: Ada, Ada Distributed Systems Annex, distributed systems, priority optimization, real-time

**6** Tera hardware-software cooperation

Gail Alverson, Preston Briggs, Susan Coatney, Simon Kahan, Richard Korry
November 1997 **Proceedings of the 1997 ACM/IEEE conference on Supercomputing (CDROM)**

Full text available: pdf(217.50 KB) Additional Information: full citation, abstract, references, citings

The development of Tera's MTA system was unusual. It respected the need for fast hardware and large shared memory, facilitating execution of the most demanding parallel application programs. But at the same time, it met the need for a clean machine model enabling calculated compiler optimizations and easy programming; and the need for novel architectural features necessary to support fast parallel system software. From its inception, system and application needs have molded the MTA architecture. ...

**7** Decentralized priority control in data communication

L. Nisnevich, E. Strasbourger
December 1974 **ACM SIGARCH Computer Architecture News , Proceedings of the 2nd annual symposium on Computer architecture**, Volume 3 Issue 4

Full text available: pdf(617.42 KB) Additional Information: full citation, references, citings

**8** A simulation model for distributed real-time database systems

Özgür Ulusoy, Geneva G. Belford
April 1992 **Proceedings of the 25th annual symposium on Simulation**

Full text available: pdf(955.52 KB) Additional Information: full citation, references, citings, index terms

**9** The transport layer: tutorial and survey

Sami Iren, Paul D. Amer, Phillip T. Conrad
December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4

Full text available: pdf(261.78 KB) Additional Information: full citation, abstract, references, citings, index terms

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a

survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

**Keywords**: TCP/IP networks, congestion control, flow control, transport protocol, transport service

10 Operational transformation: Grouping in collaborative graphical editors

Claudia-Lavinia Ignat, Moira C. Norrie

November 2004 **Proceedings of the 2004 ACM conference on Computer supported cooperative work**

Full text available: pdf(212.15 KB) Additional Information: full citation, abstract, references, index terms

Often collaborative graphical systems lag behind well accepted single-user applications in terms of features supported. The frequently used operations of group/ungroup offered by almost every single-user graphical editor have not been considered by the collaborative graphical editing systems that try to preserve the intentions of the users involved in the concurrent editing. In this paper we present a novel algorithm based on operation serialisation for consistency maintenance in collaborativ ...

**Keywords**: collaborative graphical editors, consistency, grouping/ungrouping, maintenance, serialisation

11 Stateful distributed interposition

John Reumann, Kang G. Shin

February 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 1

Full text available: pdf(833.84 KB) Additional Information: full citation, abstract, references, index terms

Interposition-based system enhancements for multitiered servers are difficult to build because important system context is typically lost at application and machine boundaries. For example, resource quotas and user identities do not propagate easily between cooperating services that execute on different hosts or that communicate with each other via intermediary services. Application-transparent system enhancement is difficult to achieve when such context information is obscured by complex servic ...

**Keywords**: Distributed computing, component services, distributed context, multitiered services, operating systems, server consolidation

12 Modeling and schedulability analysis in the development of real-time distributed Ada systems

J. Javier Gutiérrez, José M. Drake, Michael González Harbour, Julio L. Medina

April 2002 **ACM SIGAda Ada Letters , Proceedings of the 11th international workshop on Real-time Ada workshop**, Volume XXII Issue 4

Full text available: pdf(248.13 KB) Additional Information: full citation, abstract, references, citings

The paper proposes a model for specific Ada structures that can be integrated into our methodology for modeling and performing schedulability analysis in the development phases of distributed real-time applications written in Ada 95 and using its Annexes D and E. This methodology is based on independently modeling the platform, the logical components used, and the real-time situations of the application itself (real-time transactions, workload or timing requirements). The specific models present ...

**Keywords**: ada, distributed systems, modeling, real-time, schedulability analysis

13 Implicit coscheduling: coordinated scheduling with implicit information in distributed

systems
Andrea Carol Arpaci-Dusseau
August 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 3

Full text available: pdf(1.83 MB) Additional Information: full citation, abstract, references, citings, index terms

In modern distributed systems, coordinated time-sharing is required for communicating processes to leverage the performance of switch-based networks and low-overhead protocols. Coordinated time-sharing has traditionally been achieved with gang scheduling or explicit coscheduling, implementations of which often suffer from many deficiencies: multiple points of failure, high context-switch overheads, and poor interaction with client-server, interactive, and I/O -intensive workloads. I ...

**Keywords**: clusters, coscheduling, gang scheduling, networks of workstations, proportional-share scheduling, two-phase waiting

14 The EM-X parallel computer: architecture and basic performance
Yuetsu Kodama, Hirohumi Sakane, Mitsuhisa Sato, Hayato Yamana, Shuichi Sakai, Yoshinori Yamaguchi
May 1995 **ACM SIGARCH Computer Architecture News , Proceedings of the 22nd annual international symposium on Computer architecture**, Volume 23 Issue 2

Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

Latency tolerance is essential in achieving high performance on parallel computers for remote function calls and fine-grained remote memory accesses. EM-X supports interprocessor communication on an execution pipeline with small and simple packets. It can create a packet in one cycle, and receive a packet from the network in the on-chip buffer without interruption. EM-X invokes threads on packet arrival, minimizing the overhead of thread switching. It can tolerate communication latency by using ...

15 Implementing on-line simulation upon the World-Wide Web
Wayne J. Davis, Xu Chen, Andrew Brook
December 1998 **Proceedings of the 30th conference on Winter simulation**

Full text available: pdf(169.27 KB) Additional Information: full citation, references, citings, index terms

16 A novel approach to parenting in functional program evaluation
Julian R. Dermoudy
February 2003 **Proceedings of the twenty-sixth Australasian computer science conference on Conference in research and practice in information technology - Volume 16 CRIPTS '03**

Full text available: pdf(86.13 KB) Additional Information: full citation, abstract, references, index terms, review

The ability for multiple threads to enter the same graph node without contention and conflict is a necessary component of the graph reduction of functional languages since graph components may be shared. Shared closures, however, compound the difficulty of priority management.The original GUM runtime system does not track which threads require the evaluation of which closures or which sparks relate to which threads. These problems are remedied in the novel implementation of GUM presented here wh ...

**Keywords**: concurrency, distributed systems, functional programming

17 A message priority assignment algorithm for CAN based networks
Zhengou Wang, Huizhu Lu, Marvin Stone
April 1992 **Proceedings of the 1992 ACM annual conference on Communications**

Full text available: pdf(688.62 KB) Additional Information: full citation, abstract, references, index terms

Controller Area Network (CAN) defines a very efficient medium access control protocol. This protocol solve conflict message transmission conflicts through message priorities, and results in a high channel utilization and short message delay for higher priority messages. An analytical model of the maximum message delay is presented. The maximum delay of different types of messages are formulated in terms of the message priority and the offered load of the system. Based on the maximum delay a ...

**18** Remote attribute updating for language-based editors

Thomas W. Reps, Carla Marceau, Tim Teitelbaum

January 1986 **Proceedings of the 13th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

Full text available: pdf(2.65 MB) Additional Information: full citation, abstract, references, citings

A major drawback to the use of attribute grammars in language-based editors has been that attributes can only depend on neighboring attributes in a program's syntax tree. This paper concerns new attribute-grammar-based methods that, for a suitable class of grammars, overcome this fundamental limitation. The techniques presented allow the updating algorithm to skip over arbitrarily large sections of the tree that more straightforward updating methods visit node by node. These techniques are then ...

**19** ARGOS: An operating system for a computer utility supporting interactive instrument control

Paul Day, John Hines

January 1973 **ACM SIGOPS Operating Systems Review , Proceedings of the fourth ACM symposium on Operating system principles**, Volume 7 Issue 4

Full text available: pdf(750.58 KB) Additional Information: full citation, abstract, references, index terms

"ARGOS" (ARGonne Operating System), which runs on a Xerox Sigma 5 hardware configuration, provides a dynamic multiprogrammed environment which supports the following: data acquisition and interactive control for numerous (currently 19) independently running on-line laboratory experiments; three interactive graphics terminals; FORTRAN IV-H executing at each of 23 remote time-shared terminals; a jobstream from open-shop batch processing; long-term low priority computations (100 CP ...

**20** Energy-aware system design: Extending the lifetime of a network of battery-powered mobile devices by remote processing: a markovian decision-based approach

Peng Rong, Massoud Pedram

June 2003 **Proceedings of the 40th conference on Design automation**

Full text available: pdf(331.71 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper addresses the problem of extending the lifetime of a battery-powered mobile host in a client-server wireless network by using task migration and remote processing. This problem is solved by first constructing a stochastic model of the client-server system based on the theory of continuous-time Markovian decision processes. Next the dynamic power management problem with task migration is formulated as a policy optimization problem and solved exactly by using a linear programming approa ...

**Keywords**: Markovian decision processes, client-server system, network lifetime, remote processing